

Appl. No. 10/707,275
Amdt. dated October 24, 2005
Reply to Office action of August 10, 2005

Amendments to the Claims:

Listing of Claims:

Claims 1-11 (cancelled)

5 Claim 12 (previously presented): A backlight source disposed under a display panel, the backlight source comprising a plurality of parallel U-shaped lamps or C-shaped lamps, each of which comprises a bending portion, a high voltage electrode at one end and a low voltage electrode at another end of each of the U-shaped lamp or C-shaped lamp, the U-shaped or C-shaped lamps being reverse disposed side by side along a first direction so that all of the high and low voltage electrodes are positioned in at least a line along the first direction, the high voltage electrode of each of the U-shaped or C-shaped lamps is adjacent to the low voltage electrode of the same U-shaped or C-shaped lamps, or the low voltage electrode of 10 another U-shaped or C-shaped lamps along the first direction.

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Claim 13 (previously presented): The backlight source of claim 12 wherein

the backlight source is installed in a direct-type backlight panel unit.

20 Claim 14 (previously presented): The backlight source of claim 13 wherein the direct-type backlight unit comprises a diffuser disposed between the display panel and the plurality of the U-shaped lamps for scattering a light source generated by the plurality of the U-shaped lamps to the display panel, a light diffuser plate disposed between the diffuser and the plurality 25 of the U-shaped lamps for transmitting the light source to the diffuser, and a reflecting plate disposed under the plurality of the U-shaped lamps for reflecting the light source to the light diffuser plate.

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Claim 15 (previously presented): The backlight source of claim 14 wherein the direct-type backlight panel unit further comprises a housing disposed under the reflecting plate for surrounding the reflecting plate, and a bezel 5 for assembling the display panel and the backlight source.

Claim 16 (currently amended): The backlight source of claim [[1]] 12 wherein each of the U-shaped or C-shaped lamps is a cold cathode fluorescent lamp (CCFL).

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Claim 17 (previously presented): The backlight source of claim 12, wherein each of the U-shaped or C-shaped lamps being bent in a reverse direction to the adjacent U-shaped or C-shaped lamps, so that the high and low voltage electrodes are positioned in two lines along the first direction.

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Claim 18 (previously presented): The backlight source of claim 17 wherein each of the U-shaped or C-shaped lamps has an opening defined by its two ends and bending portion, and one end of each of the U-shaped or C-shaped lamps is positioned inside the opening of one of the adjacent U-shaped or 20 C-shaped lamps.

Claim 19 (previously presented): The backlight source of claim 12 wherein each of the high voltage electrodes is adjacent to two low voltage electrodes positioned in the line.

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Claim 20 (previously presented): The backlight source of claim 12 wherein the backlight source further comprises a power supply for providing current and a control circuit electrically connected to the power supply for

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driving the backlight source.

Claim 21 (previously presented): The backlight source of claim 20 wherein
the control circuit comprises at least one inverter electrically connected to
5 the high voltage electrode and the low voltage electrode of the
corresponding U-shaped lamp or C-shaped lamp.

Claim 22 (previously presented): The backlight source of claim 21 wherein
the inverter comprises a direct current/alternating current (DC/AC)
10 inverter, a pulse width modulation (PWM) inverter or a series resonant
parallel loaded (SPRL) inverter.